



HAZEM HAMED SALEH MOHAMED

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Birth date :27 Sep.,1973

Marital Status: married

Military service: completed

EDUCATION

Scientific field :

- Bachelor of Science Department of Microbiology, May 1996 with very good from Al azhar University, Cairo, Egypt.
- Master of Microbiology (2009) from Faculty of Science, Mansoura University with a thesis titled “**Characterization of some pathogenic nosocomial bacteria** “
- Doctor Degree of Philosophy of Science (2011) from Faculty of Science, Mansoura University with a thesis titled “**Application of some Molecular Techniques for Rapid Detection and Identification of Some Mycobacterium Species** “

TRAININGS :

- Training courses on VersaTrek , Sensititer, VITEK 2, ARCHITECT i1000 SR, VIDAS, Cobas Amplicore.
- LightCycler 2.0 Basic Application Training on Real Time PCR.
Mannheim, September, 2010

CURRENT POSITION

Medical Analysis Fellow in Urology Nephrology Centre, Mansoura University,
Mansoura, Egypt (2011 – till now)

WORK EXPERIENCE

Work in the scientific field :

Medical Analysis Specialist in Urology Nephrology Centre, Mansoura
University, Mansoura, Egypt (1998 – 2011)

1- In Bacteriology

I. Bacterial culturing ; Prepare media and broth for use in pathogen testing as required. As cultivation of Fungi on Sabaroud Agar, cultivation of Bacteria on different nutrients solidified (like CLED Agar, Nutrient Agar, SS Agar, Mannitol Salt Agar, Mueller Hinton Agar, McConkey Agar and Blood Agar or liquefied Media (like Trypticase Soy Broth, Mueller Hinton Broth, L.B. Broth and Selinite F Broth for several types of samples including Urine midstream, Sputum, Wound, Nasal, Ear, Throat, and Conjunctive Swabs or any other body fluids.

II. Bacterial Identification: isolation of infectious bacterial colonies and Identifying it using several manually biochemical tests like API(Biomerieux, France) and Crystal (Becton Dickinson, USA). Or automated biochemical tests like Microscan (Seimens, USA), Phoenix (Becton Dickinson, USA), Sensititer (TREK Diagnostic Systems, UK), and VITEK 2 (Biomerieux, France).

III. Antibiotic Susceptibility Testing: Manually by Disc Diffusion Technique on Mueller Hinton Agar using different antibiotic discs or Epsilometer Test (E-Test), Automated detection of Minimal Inhibitory Concentration (MIC) using Microscan (Seimens, USA), Phoenix (Becton Dickinson, USA), Sensititer (TREK Diagnostic Systems, UK), and VITEK 2 (Biomerieux, France)

IV. Blood culture: By VersaTrek (TREK Diagnostic Systems, UK), Bactec (Becton Dickinson, USA), and Signal (OXOID, UK)

V. Acid Fast Staining (ziehl neelsen stain): Which involves sample preparatio and fixation of smear on the slide and staining with ziehl neelsen method.

VI. Infection control: That involves sterilization of operation rooms and take swabs to detect nosocomial infectious Gram-Negative or Gram-Positive bacteria.

VII. Virology and Serology: Detection of hepatitis B Markers (HBsAg, HBsAb, HBeAg, HBeAb, Anti-HB Core IgM, and Anti-HB CoreTotal), Detection of hepatitis C Virus(HCV Ab) , Detection of Human Immunodeficiency virus (HIV Ag-Ab) , Detection of Hepatitis A uirus(HAV), and Cytomegalovirus (CMV IgG ,CMV IgM) manually by ELISA (Enzyme Linke Immunosorbent Assay) using (Seimens, USA), (BIO-RAD, France), (MUREX,UK) ,or instrumentally by Micro-Particles Immunoassay (MEIA) using AXSYM and ARCHITECT i1000 SR(Abbott Laboratories, USA) and VIDAS (Biomerieux, France). Anti streptolysin O titre (ASO), C-Reactive Protein (CRP) and Anti double stranded DNA (Anti ds-DNA).

2- Molecular Biology:

I. DNA Extraction: Manually by dissolving the target in Guanidine

thiocyanate followed by isolation of DNA by Phenol Chloroform Iso-amyl Alcohol(25:24:1) followed by precipitation of DNA by Isopropanol; or using different DNA or RNA Extraction kits (ROCHE, PROMEGA, STRATAGENE ...etc.).

II. Polymerase Chain Reaction (PCR) and Real Time PCR: For detection of TB, Hepatitis B & C virus, Cytomegalovirus (CMV) manually by GeneAmp 2400 & 9600 thermal cycler (perkin elmer, UK) or by automated instruments as Cobas Amplicore, Cobas TaqMan, AmplePrep/ Cobas TaqMan & Light Cycler (Roche, Germany), API Prism 7000 & StepOne (Applied Biosystems, UK).

3- Urine Analysis

Dip Stick to detect Glucose, Ketone, Billirubin, SG, pH, Blood, Protein, Urobilinogen, Nitrite, and Leukocyte; Microscopic Examination to detect pyuria , hematuria , proteinuria , and other significant crystals (that reflect different types of renal stones), and also ova types.

4- Chemistry Laboratory

That involving biochemistry analysis of K, Na, Glucose (random , fast), P, Ca, Cl, BUN, Liver Functions, Lipid Profile and , creatinine in blood plasma of patient using Synchron CX7(Beckman, USA), blood gas profile for Intensive Care Patients using Radiometer ABL and Seimens(USA).

5- Hematology Laboratory

(CBC; Hemogram) using Cell-Dyn (ABBOTT Laboratories, USA).

6- Blood Bank ;

involves blood group detection, cross-matching between the receipient Patients and donor blood for reservation of whole blood, plasma and, platelets for patients that face bleeding.

LANGUAGES SKILLS :

- Mother Tongue: Arabic Language.
- English: professional in taking.

COMPUTER SKILLS:

Oriented with MsOffice 2003, 2007, 2010, windows (xp, 7, vista), some knowledge in hardware Troubleshooting.

SCIENTIFIC PUBLICATION_:

1- **M.I. ABOU-DOBARA, M.A. DEYAB, E.M. ELSAWY and H.H. MOHAMED**

Antibiotic Susceptibility and Genotype Patterns of *Escherichia coli*, *Klebsiella pneumoniae* and *Pseudomonas aeruginosa* Isolated from Urinary Tract Infected Patients.

Polish Journal of Microbiology

Vol. 59, No 3, 207–212, 2010

2- **ABOU-DOBARA M.I. , DEYAB M.A.*, ELSAWY E.M. and MOHAMED H.H.**

Antibiotic Susceptibility of *Escherichia coli*, *Klebsiella pneumoniae* and *Pseudomonas aeruginosa* Isolated from Urinary Tract Infected Patients.

Assiut Univ. J. of Botany
38(2), P-P. 107-119, 2009

References:

Dr. Essam Mahmoud Abdel Moneim Elsayy,

Consultant Medical Microbiology and Immunology and Head of the Laboratories Department., Urology and nephrology Centre, Mansoura University.

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